

**R307. Environmental Quality, Air Quality.****R307-344. Paper, Film, and Foil Coatings.****R307-344-1. Purpose.**

The purpose of this rule is to limit volatile organic compound (VOC) emissions from roll and knife rotogravure coaters and drying ovens of paper, film, and foil coating operations.

**R307-344-2. Applicability.**

R307-344 applies to paper, film, and foil coating operations, including related cleaning activities, that have the potential to emit 2.7 tons per year and that are located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties.

**R307-344-3. Definitions.**

The following additional definitions apply to R307-344:

"Coating" means a protective, functional, or decorative film applied in a thin layer to a surface. This term often applies to paints such as lacquers or enamels, but is also used to refer to films applied to paper, plastics, or foil.

"Foil coating" means a coating applied in a web coating process on any foil substrate other than paper or fabric, including, but not limited to, typewriter ribbons, photographic film, magnetic tape, and metal foil gift wrap, but excluding coatings applied to packaging used exclusively for food and health care products for human and animal consumption.

"Knife coating" means the application of a coating material to a substrate by means of drawing the substrate beneath a blade that spreads the coating evenly over the width of the substrate.

"Rotogravure printing" means rotogravure printing upon paper, paper board, metal foil, plastic film, and other substrates, which are, in subsequent operations, formed into packaging products and labels.

"Paper coating" means uniform distribution of coatings put on paper, film, foils and pressure sensitive tapes regardless of substrate. Related web coating processes on plastic film and decorative coatings on metal foil are included in this definition. Paper coating covers saturation operations as well as coating operations.

"Roll coating" means the application of a coating material to a substrate by means of hard rubber or steel rolls.

"Roll printing" means the application of words, designs and pictures to a substrate usually by means of a series of hard rubber or steel rolls each with only partial coverage.

"Rotogravure coating" means the application of a uniform layer of material across the entire width of the web to substrate by means of a roll coating technique in which the pattern to be applied is etched on the coating roll. The coating material is picked up in these recessed areas and is transferred to the substrate.

"Rotogravure printing" means the application of words,

1 designs, and pictures to a substrate by means of a roll printing  
2 technique that involves a recessed image area in the form of  
3 cells.

4 "Saturation" means dipping the web into a bath.

5 "Web" means a continuous sheet of substrate.

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7 **R307-344-4. Emission Standards.**

8 Each owner or operator shall not apply coatings with a VOC  
9 content in excess of the amounts specified in Table 1 or shall use  
10 an add-on control device as specified in R307-344-6.

11  
12 TABLE 1

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14 Paper, Film, and Foil Coating Limitations  
15 (values in pounds VOC per gallon of coating, minus water, as  
16 applied)

17 COATING CATEGORY	VOC EMISSION RATES
18 Paper, film and foil	0.08
19 Pressure sensitive tape 20 and label	0.067

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25 **R307-344-5. Work Practices and Recordkeeping.**

26 (1) Fugitive emissions. Control techniques and work  
27 practices are to be implemented at all times to reduce VOC  
28 emissions from fugitive type sources. Control techniques and work  
29 practices include:

- 30 (a) Using tight fitting covers for open tanks;  
31 (b) Using covered containers for solvent wiping cloths;  
32 (c) Using collection hoods for areas where solvent is used  
33 for cleanup;  
34 (d) Minimizing spills of VOC-containing cleaning materials;  
35 (e) Conveying VOC-containing materials from one location to  
36 another in closed containers or pipes;  
37 (f) Cleaning spray guns in enclosed systems;  
38 (g) Using recycled solvents for cleaning;  
39 (h) Disposing waste solvents and waste materials that  
40 contain solvents by recycling, reclaiming, incineration in an  
41 incinerator approved to process hazardous materials, or by an  
42 alternate means approved by the director.

43 (2) The owner or operator shall maintain records from the  
44 manufacturer that demonstrate compliance with the emission  
45 standards of R307-344-4.

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47 **R307-344-6. Optional Add-On Controls.**

48 (1) The owner or operator may install and maintain an  
49 incinerator, carbon adsorption, or any other add-on emission  
50 control device, provided that the emission control device will

1 attain at least 90% efficiency performance.

2 (2) The owner or operator of a control device shall provide  
3 certification from the manufacturer that the emission control  
4 system will attain required efficiency performance.

5 (3) Emission control systems shall be operated and maintained  
6 in accordance with the manufacturer recommendations. The owner or  
7 operator shall maintain for a minimum of two years records of  
8 operating and maintenance sufficient to demonstrate that the  
9 equipment is being operated and maintained in accordance with the  
10 manufacturer recommendations.

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12 **R307-344-7. Compliance Schedule.**

13 All sources in Davis and Salt Lake counties shall be subject  
14 to this rule upon the effective date. Sources in Box Elder, Cache,  
15 Tooele, Utah and Weber counties shall be in compliance with the  
16 rule by September 1, 2013.

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19 **KEY: VOC emission, paper coating, film coating, foil coating.**

20 **Date of Enactment or Last Substantive Amendment: 2012**

21 **Notice of Continuation: February 1, 2012**

22 **Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)**  
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